



RESEARCH PAPER

Study on profitability of sunhemp seed production over blackgram in rice follows of Srikakulam district of north coastal AP

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Abstract : The crops like sun hemp, pulses, daincha, pillipesra are used as green manure or cover crops grown primarily for soil incorporation. The green manuring is the easiest and cheapest way to enrich the soil fertility besides adding huge amount of organic carbon to the soil and also which prevents soil erosion. Lack of green manure seed availability precede to paddy is major a constraint at farmer's level. In the farming system of rice fallow pulse yields are reduced due to climate constraints like low temperature and fog during *Rabi*, crop constraints like lack of YMV tolerant varieties, the yields are reducing so that farmers are unable reap the pulses in rice fallow situations in the present scenario. The study on productivity of seed production of sunhemp crop for seed and profitability was a lacuna in this zone. The present study of productivity of sunhemp (*Crotalaria juncea* L.) seed production was studied for seed yield in rice fallow situation during *Rabi*, 2020-21 and *Rabi*, 2021-22 under rainfed situation by Krishi Vigyan Kendra, Amadalavalasa. The Front Line Demonstrations (FLD) were conducted at farmers' fields in 10 locations randomly covering entire district during this period. Observations were recorded on days to maturity, seed yield, cost of cultivation, B:C ratio and net income. The results were revealed that significantly higher seed yield was observed in sunhemp when compared to black gram in rice fallow situation. The higher seed yield recorded in sun hemp (10.3 q/h) over black gram (5.7 q/h) and net income of sun hemp seed production (Rs.19,500/h) and black gram is (Rs.9,750) While the B:C ratio of sunhemp (1:2.34) and blackgram is (1:1.60) during two consequent years of *Rabi*, 2020-21 and 2021-22. The study revealed that growing of sun hemp in rice fallows is much remunerative in-terms of higher growth and yield components when compared to blackgram and add more green manure to soil and increased net income to the farmer. The farmers realized that, sunhemp seed production is best suitable after rice in *Rabi* season under rain fed condition in Srikakulam district of North Coastal Zone of Andhra Pradesh.

Key Words : Sunhemp, Black gram, Rice fallow situation, OFTs, Yield

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